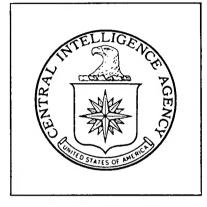
### **Top Secret**



DIRECTORATE OF INTELLIGENCE

Industrial Facilities (Non-Military)

# Basic Imagery Interpretation Report

Major Electric Power Plants Yunnan Province, China

**Top Secret** 

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RCS 13/0044/70

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	CENTRAL INTELLIGENCE AGENCY Directorate of Intelligence Imagery Analysis Service	

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**ABSTRACT** 

This report covers the nine major electric power plants in Yunnan Province, southern China. It updates the previous basic reports on the three plants at Chiang-pien-chieh, Hsuan-wei, and Hui-tse, and two each at Kai-yuan and Kun-ming, and provides the initial basic reports on two thermal power plants at Jen-ho-chieh. The latest information used in this report is dated December 1969 for Hsuan-wei and March 1970 for the other plants.

Jen-ho-chieh Thermal Power Plant I has two independent power-producing units, each with a boilerhouse and generator hall. It also contains a coal storage and processing facility, a water treatment facility, and several support buildings. In March 1966, when the plant was first seen on photography, the southern boilerhouse and generator hall and the associated switching yard were complete. southern boilerhouse has not been seen operating. The northern boilerhouse and generator hall and its associated switching building were about half complete in March 1966 and they appeared to be complete in January 1967. The northern boilerin March, April, and August 1969, house was seen operating on and in January 1970, but it was not operating in January 1969. Because of smallscale photography, it has not been possible to determine whether the plant was operating on 19 December 1968 or in March 1970.

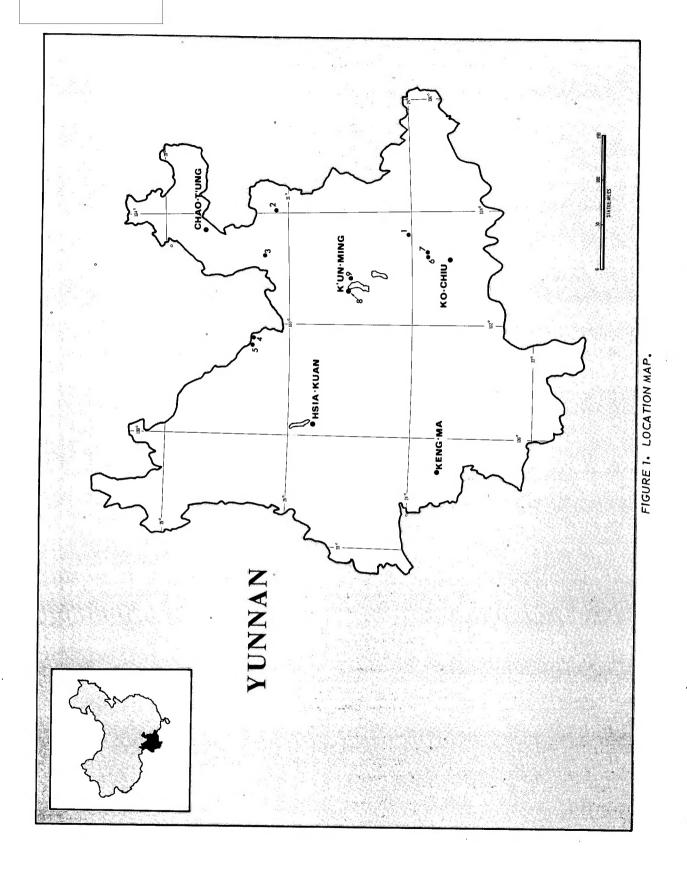
Jen-ho-chieh Thermal Power Plant 2 was first seen under construction in March 1966. The generator hall, the switching building, and the coal storage and processing facility were complete by September 1969 and the boilerhouse was complete by December 1969. In March 1970, what appeared to be foundations were observed adjacent to the boilerhouse and generator hall. The plant was operating in December 1969 and March 1970.

No construction or dismantling has been observed at the other seven plants since the previous reports. On the latest coverage, six of the seven plants were operating. Kun-ming Thermal Power Plant Pu-ping-tsun did not appear to be operating.

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INTRODUCTION

This report presents information on the current status of each of the nine major power plants in Yunnan Province and describes any changes since the previous reports.

The following list of the plants studied is keyed to Figure 1.

- 1. Chiang-pien-chieh Hydro Power Plant Liu-lang-tung.
- 2. Hsuan-wei Thermal Power Plant Jung-feng.
- 3. Hui-tse Hydro Power Plant I-li-ho I.
- 4. Jen-ho-chieh Thermal Power Plant I.
- 5. Jen-ho-chieh Thermal Power Plant 2.
- 6. Kai-yuan Thermal Power Plant.
- 7. Kai-yuan Thermal Power Plant Chemical Plant.
- 8. Kun-ming Thermal Power Plant Pu-ping-tsun.
- 9. Kun-ming Thermal Power Plant Yang-tsung-hai.

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INSTALLATION OR AC	TIVITY NAME			COUNTRY	
Chiang-pien-ch	ieh Hydro Pow	ver Plant Liu-	lang-tung	СН	
UTM COORDINATES 48RUB600556	GEOGRAPHIC COC 24-00-12N				2
MAP REFERENCE ACIC. USATC, (SECRET		heet M0496-23	HL, ist ed, Feb	68, Scale 1:200,000	25)
LATEST IMAGERY USE			NEGATION DATE (If req	juired)	
				NA	25)
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		REFER	ENCES		
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INSTALLATION OR A	CTIVITY NAME			·	COUNTRY	<del></del>
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	3/0020/69, Hsua	n-wei Thermal Po		Juna-fena)	August 1968	
	3/0020/69, <u>H</u> sua (TOP SECI	n-wei Thermal P		Jung-feng),	, Augus† 1968	25.
	3/0020/69, Hsua (TOP SECI	n-wei Thermal Po		Jung-feng),	, Augus† 1968	
	3/0020/69, <u>Hsua</u> (TOP SECI	n-wei Thermal Po		Jung-feng),	, Augus† 1968	
	3/0020/69, <u>H</u> sua (TOP SECI	n-wei Thermal Po		Jung-feng),	, Augus† 1968	
	3/0020/69, <u>Hsua</u> (TOP SECI	n-wei Thermal Po		Jung-feng),	, Augus† 1968	
	3/0020/69, <u>Hsua</u> (TOP SECI	n-wei Thermal Po		Jung-feng),	, Augus† 1968	
	3/0020/69, <u>H</u> sua (TOP SEC	n-wei Thermal Po		Jung-feng),	, Augus† 1968	
	3/0020/69, <u>Hsua</u> (TOP SECI	n-wei Thermal Po		Jung-feng),	, Augus† 1968	
	3/0020/69, <u>Hsua</u> (TOP SECI	n-wei Thermal Po		Jung-feng),	, Augus† 1968	
	3/0020/69, <u>H</u> sua (TOP SECI	n-wei Thermal Po		Jung-feng),	, Augus† 1968	

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Hui-tse Hydro Power Plant I-li-ho I		CH
UTM COORDINATES         GEOGRAPHIC COORDINATES           48RUE272154         26-20-55N 103-16-00E		I
USATC, Series 200, Sheet 0496 (SECRET)	5-12HL, Ist ed, Sep 62,	Scale 1:200,000
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	·
BASIC DES No changes have been observed at the 1968, the date of the latest photography The plant was operating in March IS nouse discharge.	ne Hui-tse Hydro Power F v used in the previous :	report.
REFER	RENCES	
CIA. BCS 13/0054/69, Hui-tse Hydro F	Power Plant (I-li-ho 1)	, October 1968
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NSTALLATION OR ACT	IVITY NAME				COUNT	RY
Jen-ho-chieh Th	ermal Power	Plant 1				CH
ITM COORDINATES	GEOGRAPHIC CO			ÖN	IIREX NO.	NIETB NO.
47RQV675415	26-34-00N	101-42-00E			None	None
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ATEST IMAGERY USED	)		NEGATION DATE (If	required)		
			NA			
		BASIC DES	CRIPTION			
		DASTO DES	CKII I ION			
chieh, on the C	hin-sha Rive by a wall.	er. The plant It is served	is located 4 not area is appropersion of the period of the	kimately 1,40	00 by 45	0 feet
The plant and generator h water treatment	all. It als	so contains a		nd processing		
In March I boilerhouse and The boilerhouse by the configur number of turbo has not been se	generator he is served be ation of the generators,	nall and the a by a single st e flue system transformers,	tack and contai . It has not b	ching yard we ns four boile een possible	ere comp ers, as to dete	lete. indicate ermine th
building were a in January 1967 possible to det	bout half co . The boile ermine the m	omplete in Mar erhouse is ser number of boi	rved by a single lers. The gene	ey appeared t e stack. It	to be co has not ontains	omplete been at least

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formers. Smoke was first seen emanating from the northern stack on indicating that the northern boilerhouse was operating. It was operating in March, April, and August 1969 and January 1970, but not in January 1969. The small scale and March 1970 precluded determining whether 25X1

of the photography on the plant was operating.





FIGURE 3. JEN-HO-CHIEH THERMAL POWER PLANT 2,

	Key to Annotations	
ltem	Description	Dimensions (Ft)
l	Switching Building (Roofed Section)	400 × 80 (110 × 80)
2	Coal Storage and Processing Facility (Roofed Section)	465 × 105 (145 × 105)
3 4	Boilerhouse Generator Hall	210 × 115 260 × 90

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	COUNT	RY	-
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	COMIREX NO.	NIETB NO.	<sup>-</sup> 25
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NEGATION DATE (If required)			- 2
	, Scale 1:250,000 (Uncla	COUNT COUNT COMIREX NO. None None	COUNTRY  CH  COMIREX NO.   NIETB NO.   None   None   None

#### BASIC DESCRIPTION

Jen-ho-chieh Thermal Power Plant 2 is located about 9 nm northwest of Jen-ho-chieh, on the Chin-sha River. It is served by a road, and a rail spur to the plant is under construction. It occupies an area 1,500 by 1,000 feet. No security fencing has been observed.

The plant was first seen under construction on photography of March 1966. By December 1968 it was in a midstage of construction. The switching building, the generator hall, and the coal storage and processing facility were complete by September 1969, and the boilerhouse was complete by December 1969. In March 1970, what appeared to be building foundations were observed adjacent to the boilerhouse and generator hall.

The boilerhouse is served by a single masonry stack. The flue system indicates that there are four boilers. The small scale of the photography precludes identifying transformers and switching gear.

The plant was operating in December 1969 and March 1970 as indicated by light smoke emanating from the stack.



	06: CIA-RDP79T00909A000900010022-3  ECRET RUFF
STALLATION OR ACTIVITY NAME	COUNTRY
Kai-yuan Thermal Power Plant	
M COORDINATES   GEOGRAPHIC COORDINATES   48QUB220212   23-41-38N 103-15-00E	T CH
PREFERENCE 548th RTG. USATC, Series 200, Sheet (SECRET)	M0616-2HL. 4th ed. Sen 68 Scale 1.200 000
TEST IMAGERY USED	NEGATION DATE (If required)
	NA
tacks and two of the three spray pond:	1970. Heavy smoke was emanating from both is were in operation.
ocument	
CIA. BCS 13/0040/69, Kai-yuan Therr	mai Power Plant, October 1968,
	-13-

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INSTALLATION OR ACTIVITY NAME		COUNTI	RY
Kai-yuan Thermal Power Plan		СН	
UTM COORDINATES GEOGRAPHIC COORD			25X
48QUB217256 23-44-05N 103	3-14-41E		
MAP REFERENCE 548th RTG. USATC, Series 20	00. Sheet MO616-2Hl 4+b	ad Sen 68 Scale 1.2	00 000
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	BASIC DESCRIPTION		
No changes have been ob the latest photography used	served at this plant sind in the previous report.	e March 1968, the da	te ot
The plant was operating	in March 1970. Heavy sm	noke was emanating fro	om the
stack.		<b>5</b> • • •	
		187	
	REFERENCES		
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DOCUMENTS			•
CIA. BCS <u>13/0041/68, Kai</u>	-yuan Thermal Power Plant (TOP SECRET RUFF)	(Chemical Plant), O	ctober
1968,	(TOP SECRET RUFF)		25)
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STALLATION OR AC	TIVITY NAME		COUNTRY
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		ant Pu-ping-tsur	CH
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		Sheet M0496-17	ll 3rded Jan 68 Scale I·200 000
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		BASIC DESCR	· IPTION
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hotography.	However, the	ear to be opera e small scale ar ation of smoke o	ting on May 1968 through March 1970 d poor quality of the photography may or vapor.
		REFEREN	ICES
Document			
	13/0002/69, k	(un-ming Thermal SECRET RUFF)	Power Plant (Pu-ping-tsun),August 19
Document CIA. BCS	13/0002/69, <u>F</u> (TOP	Kun-ming Thermal SECRET RUFF)	Power Plant (Pu-ping-tsun),August 19
	13/0002/69, k	Kun-ming Thermal SECRET RUFF)	Power Plant (Pu-ping-tsun), August 19
	13/0002/69, <u>k</u>	Kun-ming Thermal SECRET RUFF)	Power Plant (Pu-ping-tsun), August 19
	13/0002/69, k	Kun-ming Thermal SECRET RUFF)	

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un-ming Thermal Power P			СН	
GEOGRAPHIC C 8RUC005615 24-57-31N				
REFERENCE	103-01-35E			
CIC. USATC Series 200, (SECRET)	Sheet M0496-17HL. 3rd e	d. Jan 68 Sca	le 1.200 000	
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The plant was operathe two stacks. No ac	ting in March 1970. Head ctivity was observed at TREFERENCES	graphy used in	the previous rep	oort.

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